

Datasheet for ABIN7553844  
**EPC1 Protein (AA 1-836) (His tag)**



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## Overview

Quantity:	1 mg
Target:	EPC1
Protein Characteristics:	AA 1-836
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat EPC1 Protein expressed in mammalian cells.
Sequence:	<p>MSKLSFRARA LDASKPLPVF RCEDLPDLHE YASINRAVPQ MPTGMEKEEE SEHHLQRAIS</p> <p>AQQVYGEKRD NMVIPVPEAE SNIAYYESIY PGEFKMPKQL IHIQPFSLDA EQPDYDL DSE</p> <p>DEVFVNKLKK KMDICPLQFE EMIDRLEKGS GQQPVSLQEA KLLLKEDDEL IREVYEWIK</p> <p>KRKNCRGPSL IPSVKQEKRD GSSTNDPYVA FRRRTEKMQT RKNRKNDEAS YEKMLKLRRD</p> <p>LSRAVTILEM IKRREKSKRE LLHLEIME KRYNLGDYNG EIMSEVMAQR QPMKPTYAIP</p> <p>IIPITNSSQF KHQEAMDVKE FKVNKQDKAD LIRPKRKYK KPKVLPSSAA ATPQQTSPAA</p> <p>LPVFNAKDLN QYDFPSSDEE PLSQVLGSS EAEEDNDPDG PFAFRRKAGC QYYAPHL DQT</p> <p>GNWPWTSPKD GGLGDVRYRY CLTTLTVPQR CIGFARRRVG RGGRVLLDRA HSDYDSVFHH</p> <p>LDLEMLSSPQ HSPVNQFANT SETNTSDKSF SKDLSQILVN IKSCRWRHFR PRTPSLHDSD</p> <p>NDELSCRKLY RSINRTGTAQ PGTQTCSTST QSKSSSGSAH FAFTAEQYQQ HQQQLALMQK</p> <p>QQLAQIQQQ ANSNSSTNTS QNLASNQKS GFRLNIQGLE RTLQGFVSKT LDSASAQFAA</p>

SALVTSEQLM GFKMKDDVVL GIGVNGVLPA SGVYKGLHLS STTPTALVHT SPSTAGSALL  
QPSNITQTSS SHSALSHQVT AANSATTQVL IGNNIRLTVP SSVATVNSIA PINARHIPRT  
LSAVPSSALK LAAAANCQVS KVPSSSSVDS VPRENHESEK PALNNIADNT VAMEVT **Sequence**  
**without tag. The proposed Purification-Tag is based on experiences with the expression**  
**system, a different complexity of the protein could make another tag necessary. In case you**  
**have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	EPC1
Alternative Name:	EPC1 ( <a href="#">EPC1 Products</a> )
Background:	Enhancer of polycomb homolog 1,FUNCTION: Component of the NuA4 histone acetyltransferase (HAT) complex, a multiprotein complex involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A (PubMed:14966270). The NuA4 complex plays a direct role in repair of DNA double-strand breaks (DSBs) by promoting homologous recombination (HR) (PubMed:27153538). The NuA4 complex is also required for spermatid development by promoting acetylation of histones: histone acetylation is required for histone replacement during the transition from round to

## Target Details

	elongating spermatids (By similarity). In the NuA4 complex, EPC1 is required to recruit MBTD1 into the complex (PubMed:32209463). {ECO:0000250 UniProtKB:Q8C9X6, ECO:0000269 PubMed:14966270, ECO:0000269 PubMed:27153538, ECO:0000269 PubMed:32209463}.
Molecular Weight:	93.5 kDa
UniProt:	<a href="#">Q9H2F5</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months